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List of Current Claims:

Claims 1 - 8 (canceled).

9. (currently amended) A sonic- or ultrasonic flowmeter which replaces a differential pressure flowmeter, comprising:

a pipe segment ~~connect~~ connected to a first pipe and to a second pipe, each having a diameter, which complies with an industry standard for pipe diameters used in differential pressure flow measurement, a length, which is equal to a standard length for a flow restricting element of a differential pressure flowmeter, and a diameter, which is equal to a standard for pipe diameters used in differential pressure flow measurement;

a first standard connector located on a first end of said pipe segment and a second standard connector located on a second end of said pipe segment;

a primary flow sensor, comprising at least one sonic- or ultrasonic transducer for the transmission and/or reception of sonic- or ultrasonic signals ~~through across~~ said pipe segment, said at least one sonic- or ultrasonic transducer being mounted on said pipe segment; and

sensor electronics connected to said primary flow sensor for providing the measurement signal representing a flow of a fluid through said pipe segment, based on the sonic- or ultrasonic signals received by said sonic-or ultrasonic transducers.

10. (previously presented): The sonic- or ultrasonic flowmeter according to claim 9, wherein:

said first standard connector and said second standard connector are flanges or pipe sections, which are to be welded onto ends of the first pipe and the second pipe.

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11. (previously presented): The sonic- or ultrasonic flowmeter according to claim 9, wherein:

said sonic- or ultrasonic transducers are inserted in opposing bores in said pipe segment.

12. (previously presented): The sonic- or ultrasonic flowmeter according to claim 9, wherein:

said sonic- or ultrasonic transducers are mounted on opposing outside walls of said pipe segment.

13. (previously presented): The sonic- or ultrasonic flowmeter according to claim 9, further comprising:

a housing for said sensor electronics, which is mounted on said pipe segment.

14. (previously presented): The sonic- or ultrasonic flowmeter according to claim 9, further comprising:

a housing for said sensor electronics;

a mounting section located on an outside wall of said housing for mounting said housing apart from said pipe segment; and

a cable connector located on an outside wall of said housing, for connecting said sonic- or ultrasonic transducers to said sensor electronics.

15. (currently amended): The sonic- or ultrasonic flowmeter according to claim 9, further comprising:

a housing for sensor electronics; and

a mounting section located on an outside wall of said housing for mounting said housing apart from said pipe segment, said mounting section comprising two ~~pairs~~ pairs of threaded bores, wherein:

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said threaded bores form a rectangle and their position is equal to a position of threaded bores in a normed oval flanges of differential pressure transducers.

16. (previously presented): The sonic- or ultrasonic flowmeter according to claim 15, wherein:

a cable connector for connecting said sonic- or ultrasonic transducer is located between said threaded bores of each pair of threaded bores.